

SSSSSSSS	TTTTTTTT	RRRRRRRR	AAAAAA	PPPPPPPP	PPPPPPPP	EEEEEEEEEE	NN	NN	DDDDDDDD
SSSSSSSS	TTTTTTTT	RRRRRRRR	AAAAAA	PPPPPPPP	PPPPPPPP	EEEEEEEEEE	NN	NN	DDDDDDDD
SS	TT	RR	AA	PP	PP	EE	NN	NN	DD
SS	TT	RR	AA	PP	PP	EE	NN	NN	DD
SS	TT	RR	AA	PP	PP	EE	NNNN	NN	DD
SS	TT	RR	AA	PP	PP	EE	NNNN	NN	DD
SSSSSS	TT	RRRRRRRR	AA	PPPPPPPP	PPPPPPPP	EEEEEEEE	NN	NN	DD
SSSSSS	TT	RRRRRRRR	AA	PPPPPPPP	PPPPPPPP	EEEEEEEE	NN	NN	DD
SS	TT	RR	AAAAAAAAA	PP	PP	EE	NN	NNNN	DD
SS	TT	RR	AAAAAAAAA	PP	PP	EE	NN	NNNN	DD
SS	TT	RR	AA	PP	PP	EE	NN	NN	DD
SS	TT	RR	AA	PP	PP	EE	NN	NN	DD
SSSSSSSS	TT	RR	AA	PP	PP	EEEEEEEEEE	NN	NN	DDDDDDDD
SSSSSSSS	TT	RR	AA	PP	PP	EEEEEEEEEE	NN	NN	DDDDDDDD

```

LL          IIIIII          SSSSSSSS
LL          IIIIII          SSSSSSSS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SSSSSS
LL          II             SSSSSS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SS
LLLLLLLLLLLL IIIIII          SSSSSSSS
LLLLLLLLLLLL IIIIII          SSSSSSSS

```



```
1 0001 0 MODULE STR$APPEND ( ! Append a string to the end of the destination
2 0002 0
3 0003 0 IDENT = '1-007' ! File: STRAPPEND.B32 Edit: DG1007
4 0004 0
5 0005 0 ) =
6 0006 1 BEGIN
7 0007 1
8 0008 1
9 0009 1 *****
10 0010 1 *
11 0011 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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28 0028 1 *
29 0029 1 *
30 0030 1 *****
31 0031 1
32 0032 1
33 0033 1 ++
34 0034 1 FACILITY: String support library
35 0035 1
36 0036 1 ABSTRACT:
37 0037 1 This routine appends the input string onto the end of the
38 0038 1 the destination string. It will handle strings of any
39 0039 1 supported dtype or class.
40 0040 1
41 0041 1 ENVIRONMENT: User mode, AST level or not or mixed
42 0042 1
43 0043 1 AUTHOR: R. Will, CREATION DATE: 12-Nov-79
44 0044 1
45 0045 1 MODIFIED BY:
46 0046 1
47 0047 1 R. Will, 25-Oct-79 : VERSION 01
48 0048 1 1-001 - Original
49 0049 1 1-002 - String speedup, status from alloc and dealloc macros.
50 0050 1 RW 11-Jan-1980
51 0051 1 1-003 - Enhance to be able to deal with a larger class of string
52 0052 1 descriptors. Uses $STR$GET_LEN_ADDR to extract length and
53 0053 1 address of data out of a variety of source descriptors.
54 0054 1 CASE on class of output descriptor expanded to allow writing
55 0055 1 of both CLASS_D and CLASS_VS.
56 0056 1 RKR 10-APR-1981
57 0057 1 1-004 - Speed up code. RKR 7-OCT-1981.
```

STR\$APPEND
1-007

1 9
16-Sep-1984 01:26:47 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:40:00 [LIBRTL.SRC]STRAPPEND.B32;1

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(1)

```
: 58      0058 1 : 1-005 - Fix for SPR 11-55716. Addressing problem when appending a
: 59      0059 1 : truncated source string to a CLASS VS descriptor because the
: 60      0060 1 : total length would exceed MAXSTRLN. RKR 18-APR-1983.
: 61      0061 1 : 1-006 - Add support for class S0 string descriptors. DG 3-Oct-1983.
: 62      0062 1 : 1-007 - Change class S0 string descriptors to SB. DG 27-Feb-1984.
: 63      0063 1 : --
: 64      0064 1 : <BLF/PAGE>
```



```

66      0065 1  |
67      0066 1  | SWITCHES:
68      0067 1  |
69      0068 1  |
70      0069 1  | SWITCHES ADDRESSING MODE
71      0070 1  |             (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
72      0071 1  |
73      0072 1  |
74      0073 1  | LINKAGES:
75      0074 1  |
76      0075 1  |
77      0076 1  | REQUIRE 'RTLIN:STRLNK';           ! Use require file with string linkages
78      0261 1  |
79      0262 1  |
80      0263 1  | TABLE OF CONTENTS:
81      0264 1  |
82      0265 1  |
83      0266 1  | FORWARD ROUTINE
84      0267 1  |     STR$APPEND;                   ! append the input string to the end
85      0268 1  |                                     ! of the destination string
86      0269 1  |
87      0270 1  |
88      0271 1  | INCLUDE FILES:
89      0272 1  |
90      0273 1  |
91      0274 1  | REQUIRE 'RTLIN:RTLPSECT';         ! Declare PSECTS code
92      0369 1  | REQUIRE 'RTLIN:STRMACROS';       ! use string macros to write code
93      1285 1  | LIBRARY 'RTLSTARLE';             ! STARLET library for macros and symbols
94      1286 1  |
95      1287 1  |
96      1288 1  | MACROS: NONE
97      1289 1  |
98      1290 1  |
99      1291 1  |
100     1292 1  | EQUATED SYMBOLS
101     1293 1  |
102     1294 1  | LITERAL
103     1295 1  |     MAX_SIZE = 65535;             ! largest string we can handle
104     1296 1  |
105     1297 1  |
106     1298 1  |
107     1299 1  | PSECT DECLARATIONS
108     1300 1  |
109     1301 1  |
110     1302 1  | DECLARE_PSECTS (STR);
111     1303 1  |
112     1304 1  |
113     1305 1  | OWN STORAGE: NONE
114     1306 1  |
115     1307 1  |
116     1308 1  |
117     1309 1  | EXTERNAL REFERENCES:
118     1310 1  |
119     1311 1  | EXTERNAL LITERAL
120     1312 1  |     STR$_ILLSTRCLA,               ! signal illegal class error
121     1313 1  |     STR$_STRTOOLON,              ! signal string too long
122     1314 1  |     STR$_TRU,                    ! status -- truncation (warning)

```

STR\$APPEND
1-007

```
: 123      1315 1   STR$_NORMAL ;  
: 124      1316 1  
: 125      1317 1 EXTERNAL ROUTINE  
: 126      1318 1 LIB$STOP;
```

K 9
16-Sep-1984 01:26:47
14-Sep-1984 12:40:00

VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]STRAPPEND.B32;1

Page 4
(2)

! successful append

! signal errors


```
128 1319 1 GLOBAL ROUTINE STR$APPEND (      ! append a string to the end of another
129 1320 1
130 1321 1      DEST_DESC,      ! pointer to destination descr.
131 1322 1      SRC_DESC      ! pointer to source descriptor
132 1323 1
133 1324 1      ) : =      !
134 1325 1
135 1326 1 ++
136 1327 1 FUNCTIONAL DESCRIPTION:
137 1328 1
138 1329 1      This routine takes a source string of any supported dtype and
139 1330 1      class, and appends that string to the end of the destination string,
140 1331 1      which may be of any supported class or dtype, except that it is
141 1332 1      impossible to add something to the end of a string having fixed-length
142 1333 1      semantics -- an error will always be signalled in that case
143 1334 1
144 1335 1 FORMAL PARAMETERS:
145 1336 1
146 1337 1      DEST_DESC.wt.dx      pointer to destination descriptor
147 1338 1      SRC_DESC.rt.dx      pointer to source descriptor
148 1339 1
149 1340 1 IMPLICIT INPUTS:
150 1341 1
151 1342 1      NONE
152 1343 1
153 1344 1 IMPLICIT OUTPUTS:
154 1345 1
155 1346 1      NONE
156 1347 1
157 1348 1 COMPLETION CODES:
158 1349 1
159 1350 1      STR$NORMAL          Success
160 1351 1      STR$_TRU            Truncation -- a warning
161 1352 1
162 1353 1 SIDE EFFECTS:
163 1354 1
164 1355 1      STR$_ILLSTRCLA may be signalled if the destination string is
165 1356 1                      of fixed-length semantics
166 1357 1                      or undefined
167 1358 1      STR$_STRTOOLON if combined lengths of source and destination
168 1359 1                      exceed 65K in a dynamic string destination.
169 1360 1      Dynamic string space may be allocated or deallocated
170 1361 1
171 1362 1 --
172 1363 1
173 1364 2 BEGIN
174 1365 2
175 1366 2 LOCAL
176 1367 2      SRC_LEN,          ! length of source string
177 1368 2      SRC_ADDR,        ! addr of 1st byte of source
178 1369 2      DEST_LEN,        ! length of destination string
179 1370 2      DEST_ADDR,      ! addr of 1st byte of dest.
180 1371 2      TOT_LEN,        ! sum of src and dst length
181 1372 2      RETURN_STATUS;   ! status from macros
182 1373 2
183 1374 2 MAP DEST_DESC : REF $STR$DESCRIPTOR;
184 1375 2 MAP SRC_DESC : REF $STR$DESCRIPTOR;
```

```
185 1376 2
186 1377 2
187 1378 2
188 1379 2
189 1380 2
190 1381 2
191 1382 2
192 1383 2
193 1384 2
194 1385 2
195 1386 2
196 1387 2
197 1388 2
198 1389 2
199 1390 2
200 1391 2
201 1392 2
202 1393 2
203 1394 2
204 1395 2
205 1396 2
206 1397 2
207 1398 2
208 1399 2
209 1400 2
210 1401 2
211 1402 2
212 1403 2
213 1404 2
214 1405 2
215 1406 2
216 1407 2

RETURN_STATUS = 1 ;          ! Assume success

!+
! find lengths and starting addresses of strings we're dealing with,
! and their combined lengths.
!-

$STR$GET_LEN_ADDR (SRC_DESC, SRC_LEN, SRC_ADDR) ;
$STR$GET_LEN_ADDR (DEST_DESC, DEST_LEN, DEST_ADDR) ;
TOT_LEN = .SRC_LEN + .DEST_LEN ;

!+
! if the combined lengths are greater than 65K, the result is not
! going to fit in any class of descriptor we support -- return
! STR$_STRTOOLON.
!-

IF .TOT_LEN GTR MAX_SIZE THEN LIB$STOP (STR$_STRTOOLON) ;

!+
! Algorithm for writing output differs based on the class of the
! destination descriptor. The operation of appending is defined only
! for class CLASS_D and CLASS_VS destination strings.
!-

CASE .DEST_DESC [DSC$B CLASS]
FROM DSC$K_CLASS_2 TO DSC$K_CLASS_SB OF
SET
```



```
218      1408 2 !+
219      1409 2 ! dynamic destination strings
220      1410 2 *****
221      1411 2 !-
222      1412 2
223      1413 2 [DSC$K_CLASS_D]:
224      1414 2 BEGIN
225      1415 2 IF
226      1416 2 %IF %BLISS (BLISS16) OR %BLISS (BLISS36)
227      1417 2 %THEN
228      1418 2 $STR$OVERLAP ( .SRC_ADDR, .SRC_LEN ! except on VAX
229      1419 2 CH$PLUS ( .DEST_ADDR, .DEST_LEN), ! If src overlaps
230      1420 2 .SRC_LEN) ! with where it will be
231      1421 2 OR
232      1422 2 %FI ! or if dest. not large
233      1423 2 ($STR$NEED_ALLOC ( ! enough for append
234      1424 2 .TOT_LEN, ($STR$DYN_AL_LEN (DEST_DESC) ) ) )
235      1425 2 THEN ! then allocate a temp
236      1426 2 ! and use it for
237      1427 2 BEGIN ! building output string
238      1428 2
239      1429 2 LOCAL TEMP_DESC : $STR$DESCRIPTOR;
240      1430 2
241      1431 2 IF (RETURN_STATUS = $STR$ALLOCATE (.TOT_LEN, TEMP_DESC))
242      1432 2 THEN
243      1433 2 BEGIN
244      1434 2 CH$MOVE (.DEST_LEN, .DEST_ADDR, ! move dest to temp
245      1435 2 .TEMP_DESC [DSC$A_POINTER]);
246      1436 2
247      1437 2 CH$MOVE (.SRC_LEN, ! move src to end of temp
248      1438 2 .SRC_ADDR,
249      1439 2 CH$PLUS (.TEMP_DESC [DSC$A_POINTER], .DEST_LEN));
250      1440 2
251      1441 2 $STR$EXCH_DESCS (TEMP_DESC, DEST_DESC);
252      1442 2 ! switch temp and dest
253      1443 2
254      1444 2 RETURN_STATUS = ! deallocate temp
255      1445 2 $STR$DEALLOCATE (TEMP_DESC);
256      1446 2 END;
257      1447 2 END ! of append via temp descriptor
258      1448 2 ELSE
259      1449 2 BEGIN ! movement directly into output string
260      1450 2 CH$MOVE ( .SRC_LEN, .SRC_ADDR,
261      1451 2 CH$PLUS (.DEST_ADDR, .DEST_LEN));
262      1452 2
263      1453 2 DEST_DESC [DSC$W_LENGTH] = .TOT_LEN ; ! adjust size of
264      1454 2 ! result string
265      1455 2 END; ! movement directly into output string
266      1456 2 END; ! of Class_D
```

```
268 1457 2 | +
269 1458 2 | Varying string descriptor
270 1459 2 | *****
271 1460 2 | -
272 1461 2 |
273 1462 2 | [DSC$K_CLASS_VS]:
274 1463 3 | BEGIN
275 1464 3 | IF .TOT_LEN GTRU .DEST_DESC [DSC$W_MAXSTRLEN]
276 1465 3 | THEN ! resultant string won't fit within
277 1466 4 | BEGIN ! MAXSTRLEN of allocated string.
278 1467 4 |
279 1468 4 | +
280 1469 4 | Copy as much as is possible. This length is
281 1470 4 | given by MAXSTRLEN - CURLEN.
282 1471 4 | -
283 1472 4 | CH$MOVE (
284 1473 4 | .DEST_DESC [DSC$W_MAXSTRLEN] -
285 1474 4 | (.DEST_DESC [DSC$A_POINTER])<0,16>,
286 1475 4 | .SRC_ADDR,
287 1476 4 | .DEST_DESC [DSC$A_POINTER] +
288 1477 4 | .DEST_LEN + 2 ) ;
289 1478 4 |
290 1479 4 | +
291 1480 4 | Adjust CURLEN field to reflect the new length
292 1481 4 | -
293 1482 4 | (.DEST_DESC [DSC$A_POINTER])<0,16> =
294 1483 4 | .DEST_DESC [DSC$W_MAXSTRLEN];
295 1484 4 |
296 1485 4 | RETURN_STATUS = STR$_TRU;
297 1486 4 |
298 1487 4 | END ! won't fit within MAXSTRLEN
299 1488 3 | ELSE
300 1489 4 | BEGIN ! will fit within MAXSTRLEN
301 1490 4 | +
302 1491 4 | Move source data directly into varying
303 1492 4 | string, starting at byte just beyond the last
304 1493 4 | byte that is currently there.
305 1494 4 | -
306 1495 4 | CH$MOVE (.SRC_LEN, .SRC_ADDR,
307 1496 5 | (.DEST_DESC [DSC$A_POINTER] +
308 1497 4 | .DEST_LEN + 2 ) );
309 1498 4 |
310 1499 4 | +
311 1500 4 | Adjust CURLEN field to reflect the new length
312 1501 4 | -
313 1502 4 | (.DEST_DESC [DSC$A_POINTER])<0,16> = .TOT_LEN ;
314 1503 3 | END;
315 1504 2 | ! of Class_VS
316 1505 2 |
```



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+
otherwise we have an undefined class of descriptor, or a descriptor
which has fixed-length string semantics. In either case, its an
error to try to append to it.
-
[INRANGE,OUTRANGE]:
RETURN_STATUS = STR$_ILLSTRCLA;
TES;

$STR$SIGNAL FATAL (RETURN_STATUS);
RETURN .RETURN_STATUS;

END;
```

```

! signal if fatal error
! no non-fatal errors
! possible
! End of STR$APPEND
```

```
.TITLE STR$APPEND
.IDENT \1-007\
```

```
.EXTRN STR$_ILLSTRCLA, STR$_STRTOOLON
.EXTRN STR$_TRU, STR$_NORMAL
.EXTRN LIB$STOP, STR$ANALYZE_SDESC_R1
.EXTRN STR$$_INIT, STR$$_V_INIT
.EXTRN STR$$_ALOC SHORT
.EXTRN STR$$_Q SHORT Q, LIB$GET VM
.EXTRN STR$_INSVIRMEM, STR$$_MOVQ R1
.EXTRN LIB$FREE_VM, STR$_FATINTERR
```

```
.PSECT _STR$CODE,NOWRT, SHR, PIC,2
```

```
.ENTRY STR$APPEND, Save R2,R3,R4,R5,R6,R7,R8,R9,-
R10,R11
SUBL2 #20, SP
MOVL #1, RETURN_STATUS
MOVL SRC_DESC, R0
CMPB 3(R0), #2
BGTRU 1$
MOVZWL (R0), SRC_LEN
MOVL 4(R0), SRC_ADDR
BRB 2$
JSB STR$ANALYZE_SDESC_R1
MOVL R0, R10
MOVL R1, R9
MOVL DEST_DESC, R7
CMPB 3(R7), #2
BGTRU 3$
MOVZWL (R7), DEST_LEN
MOVL 4(R7), DEST_ADDR
BRB 4$
MOVL R7, R0
JSB STR$ANALYZE_SDESC_R1
MOVL R0, R8
MOVL R1, R2
ADDL3 DEST_LEN, SRC_LEN, TOT_LEN
CMPL TOT_LEN, #65535
BLEQ 5$
PUSHL #STR$_STRTOOLON
CALLS #1, LIB$STOP
```

1319
1377
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1396

```
OFFC 00000
5E 14 C2 00002
5B 01 D0 00005
50 08 AC D0 00008
02 03 A0 91 0000C
09 1A 00010
5A 60 3C 00012
59 04 A0 D0 00015
0C 11 00019
00000000G 00 16 0001B 1$:
5A 50 D0 00021
59 51 D0 00024
57 04 AC D0 00027 2$:
02 03 A7 91 0002B
09 1A 0002F
58 67 3C 00031
52 04 A7 D0 00034
0F 11 00038
50 57 D0 0003A 3$:
00000000G 00 16 0003D
58 50 D0 00043
52 51 D0 00046
5A 58 C1 00049 4$:
56 0000FFFF 8F 56 D1 0004D
0D 15 00054
00000000G 8F DD 00056
00000000G 00 01 FB 0005C
```


[illegible]

00000000G	07	00000000G	00	31	000FE	19\$:	BRW	33\$		
	00		00	E8	00101	20\$:	BLBS	STR\$V INIT, 21\$	1431	
000000F0	50	00000000G	8F	FB	00108		CALLS	#0, STR\$INIT		
	8F		56	D0	0010F	21\$:	MOVL	#STR\$ NORMAL, RETURN_STATUS		
			3E	D1	00116		CMPL	TOT_LEN, #240		
			56	1A	0011D		BGTRU	27\$		
			04	D5	0011F		TSTL	TOT_LEN		
			54	12	00121		BNEQ	22\$		
			2D	D4	00123		CLRL	TEMP		
	51	FF	A6	11	00125		BRB	26\$		
	51		07	9E	00127	22\$:	MOVAB	-1(R6), R1		
	55	00000000G	04	8A	0012B		BICB2	#7, R1		
	54	00	B5	9E	0012E		MOVAB	STR\$Q SHORT Q[R1], REMQUE_ADDR		
			05	0F	00136	23\$:	REMQUE	@(REMQUE_ADDR), TEMP		
	53		01	1D	0013A		BVS	24\$		
			0B	D0	0013C		MOVL	#1, ALLOC_DONE		
			53	11	0013F		BRB	25\$		
			56	D4	00141	24\$:	CLRL	ALLOC_DONE		
00000000G	00		01	DD	00143		PUSHL	TOT_LEN		
	05		53	FB	00145		CALLS	#1, STR\$ALOC SHORT		
	2C		50	E8	0014C	25\$:	BLBS	ALLOC_DONE, 26\$		
			E2	11	00152		BLBC	RETURN_STATUS, 29\$		
	27		50	E9	00154	26\$:	BRB	23\$		
10	AE		54	D0	00157		BLBC	RETURN_STATUS, 29\$		
			1D	11	0015B		MOVL	TEMP, TEMP_DESC+4		
		10	AE	9F	0015D	27\$:	BRB	28\$		
	04		56	D0	00160		PUSHAB	TEMP_DESC+4		
		04	AE	9F	00164		MOVL	TOT_LEN, 4(SP)		
00000000G	00		02	FB	00167		PUSHAB	4(SP)		
	09		50	E8	0016E		CALLS	#2, LIB\$GET VM		
	50	00000000G	8F	D0	00171		BLBS	RETURN_STATUS, 28\$		
			04	11	00178		MOVL	#STR\$ INSVIRMEM, RETURN_STATUS		
	OC		56	B0	0017A	28\$:	BRB	29\$		
			50	D0	0017E	29\$:	MOVW	TOT_LEN, TEMP_DESC		
			7F	E9	00181		MOVL	RETURN_STATUS, RETURN_STATUS		
10 BE			62	58	00184		BLBC	RETURN_STATUS, 32\$		
10 BE48			69	5A	00189		MOVC3	DEST_LEN, (DEST_ADDR), @TEMP_DESC+4	1435	
			51	AC	0018F		MOVC3	SRC_LEN, (SRC_ADDR), @TEMP_DESC+4[DEST_LEN]	1439	
	04		61	D0	00193		MOVL	DEST_DESC, R1	1441	
	08		A1	B0	00197		MOVW	(R1), \$STR\$TEMP_DESC		
	OE		A1	D0	00197		MOVL	4(R1), \$STR\$TEMP_DESC+4		
			50	B0	0019C		MOVW	2(R1), TEMP_DESC+2		
			0C	AE	001A1		MOVAB	TEMP_DESC, R0		
		00000000G	00	16	001A5		JSB	STR\$MOVQ R1		
	OC		AE	B0	001AB		MOVW	\$STR\$TEMP_DESC, TEMP_DESC		
	10		AE	D0	001B0		MOVL	\$STR\$TEMP_DESC+4, TEMP_DESC+4		
		00000000G	8F	D0	001B5		MOVL	#STR\$ NORMAL, RETURN_STATUS	1445	
			52	D0	001BC		MOVL	TEMP_DESC+4, R2		
			3E	13	001C0		BEQL	31\$		
00F0	8F		AE	B1	001C2		CMPW	TEMP_DESC, #240		
			1A	1A	001C8		BGTRU	30\$		
	51		52	D0	001CA		MOVL	R2, STRING_BLOCK		
	51		A1	3C	001CD		MOVZWL	-2(STRING_BLOCK), ALLOC_LENGTH		
			51	D7	001D1		DECL	R1		
	51		07	8A	001D3		BICB2	#7, R1		
	51	00000000G	04	9E	001D6		MOVAB	STR\$Q SHORT Q[R1], INSQUE_ADDR		
00	B1		62	0E	001DE		INSQUE	(R2), @0(INSQUE_ADDR)		

				1C	11	001E2		BRB	31\$		
				AE	9F	001E4	30\$:	PUSHAB	TEMP_DESC+4		
	04	AE		AE	3C	001E7		MOVZWL	TEMP_DESC, 4(SP)		
				AE	9F	001EC		PUSHAB	4(SPT)		
	00000000G	00		02	FB	001EF		CALLS	#2, LIB\$FREE VM		
		07		50	E8	001F6		BLBS	RETURN_STATUS, 31\$		
		50	00000000G	8F	D0	001F9		MOVL	#STR\$ FATINTERR, RETURN_STATUS		
		5B		50	D0	00200	31\$:	MOVL	RETURN_STATUS, RETURN_STATUS		
				40	11	00203	32\$:	BRB	36\$		1415
	6842	69		5A	28	00205	33\$:	MOVC3	SRC_LEN, (SRC_ADDR), (DEST_LEN)[DEST_ADDR]		1451
		67		56	B0	0020A		MOVW	TOT_LEN, (R7)		1453
				36	11	0020D		BRB	36\$		1405
56		10		00	ED	0020F	34\$:	CMPZV	#0, #16, (R7), TOT_LEN		1464
				21	1E	00214		BGEQU	35\$		
		51		67	3C	00216		MOVZWL	(R7), R1		1474
		50	04	B7	3C	00219		MOVZWL	@4(R7), R0		
		51		50	C2	0021D		SUBL2	R0, R1		
	02	50		58	04	A7	C1	00220	ADDL3	4(R7), DEST_LEN, R0	1477
		A0		69		51	28	00225	MOVC3	R1, (SRC_ADDR), 2(R0)	
			04	B7		67	B0	0022A	MOVW	(R7), @4(R7)	1483
				5B	00000000G	8F	D0	0022E	MOVL	#STR\$_TRU, RETURN_STATUS	1485
				0E	11	00235		BRB	36\$		1464
		58	04	A7	C1	00237	35\$:	ADDL3	4(R7), DEST_LEN, R0		1497
	02	50		5A	28	0023C		MOVC3	SRC_LEN, (SRC_ADDR), 2(R0)		1496
		A0		56	B0	00241		MOVW	TOT_LEN, @4(R7)		1502
			04	B7		5B	E8	00245	36\$:	BLBS	RETURN_STATUS, 37\$
04		5B		00	ED	00248		CMPZV	#0, #3, RETURN_STATUS, #4		1515
				09	12	0024D		BNEQ	37\$		
				5B	DD	0024F		PUSHL	RETURN_STATUS		
	00000000G	00		01	FB	00251		CALLS	#1, LIB\$STOP		
		50		5B	D0	00258	37\$:	MOVL	RETURN_STATUS, R0		1516
				04	0025B			RET			1518

; Routine Size: 604 bytes, Routine Base: _STR\$CODE + 0000

STR\$APPEND
1-007

G 10
16-Sep-1984 01:26:47
14-Sep-1984 12:40:00

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[LIBRTL.SRC]STRAPPEND.B32;1

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(7)

: 332 1519 1 END
: 333 1520 0 ELUDOM

!End of module

PSECT SUMMARY

Name	Bytes	Attributes
_STR\$CODE	604	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	11	0	581	00:00.8

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:STRAPPEND/OBJ=OBJ\$:STRAPPEND MSRC\$:STRAPPEND/UPDATE=(ENH\$:STRAPPEND
:)

: Size: 604 code + 0 data bytes
: Run Time: 00:10.5
: Elapsed Time: 00:43.6
: Lines/CPU Min: 8669
: Lexemes/CPU-Min: 37768
: Memory Used: 202 pages
: Compilation Complete

0213 AH-BT13A-SE
VAX/VMS V4.0

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